# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### **Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled "A SEMICONDUCTOR DEVICE HAVAING A DOPED LATTICE MATCHING LAYER AND A METHOD OF MANUFACTURE THEREFOR," the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose to all information known to me which is material to the patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

NUMBER	None	DATE FILED	CLAIMED
NUMBER	COUNTRY	רומ זומ מתי ע	11401411
			PRIORITY

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

US/PCT Serial Num	Date Filed	Status
None		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum Richard J. Botos Gerard A. deBlasi	(Reg. No. 25,830) (Reg. No. 32,016) (Reg. No. 34,149)
Anthony Grillo	(Reg. No. 36,535)
Mark A. Kurisko	(Reg. No. 38,944)
Robert P. Marley	(Reg. No. 32,914)
Scott W. McLellan	(Reg. No. 30,776)
Geraldine Monteleone	(Reg. No. 40,097)
Scott J. Rittman	(Reg. No. 39,010)
Ferdinand M. Romano	(Reg. No. 32,752)
David L. Smith	(Reg. No. 30,592)
John P. Veschi	(Reg. No. 39,058)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of first inventor:

Wen Lin

Inventor's signature:

Date: Oct. 12,200/

Residence:

City of Allentown County of Lehigh State of Pennsylvania

Citizenship:

United States of America

Post Office Address:

4445 Kohler Drive

Allentown, Pennsylvania 18103

Full name of second inventor:

Charles W. Pearce

Inventor's signature: Tale W. Place

Date: October 16, 2001

Residence:

City of Emmaus County of Lehigh
State of Pennsylvania

Citizenship:

United States of America

Post Office Address:

410 South 12th Street

Emmaus, Pennsylvania 18049

## ATTACHMENT A

## Attorney Name(s):

David H. Hitt	Registration No. 33,182
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(972) 480-8800

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Greg H. Parker

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P.O. Box 832570

Richardson, Texas 75083

Atty. Docket No.: LIN 11-34



FEBRUARY 04, 2002

PTAS

HITT GAINES & BOISBRUN, P.C. GREG H. PARKER P.O. BOX 832570 RICHARDSON, TX 75083

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LIN, WEN

DOC DATE: 10/12/2001

ASSIGNOR:

PEARCE, CHARLES W.

DOC DATE: 10/16/2001

ASSIGNEE:

AGERE SYSTEMS INC.
555 UNION BOULEVARD
A CORPORATION OF DELAWARE
ALLENTOWN, PENNSYLVANIA 18109

SERIAL NUMBER: 10003873

PATENT NUMBER:

FILING DATE: 10/24/2001

ISSUE DATE:

DOROTHY BASMA, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1619A **U.S. Department of Commerce** Expires 06/30/99 **Patent and Trademark Office** OMB 0651-0027 12-14-2001 PATENT HEET LIN 11-34 101916323 MLY TO: The Commissioner of Patents and tragemarks: Please record the attached original document(s) or copy(ies). Submission Type Conveyance Type X New Assignment **Security Agreement** Resubmission (Non-Regordation License Change of Name **Document ID#** Correction of PTO Error Other Merger Reel# Frame # U.S. Government **Corrective Document** (For Use ONLY by U.S. Government Agencies) Reel# Frame # Departmental File Secret File Conveying Party(ies) Mark if additional names of conveying parties attached **Execution Date** Month Day Name (line 1) Wen Lin 10 12 2001 Name (line 2) Execution Date
Day Year Second Party Month Day Charles W. Pearce Name (line 1) 2001 16 Name (line 2) Receiving Party Mark if additional names of receiving parties attached Name (line 1) Agere Systems Inc. If document to be recorded is an assignment and the receiving party is not Name (line 2) a Corporation of Delaware domiciled in the United States, an appointment of a domestic Address (line 1) 555 Union Boulevard representative is attached. (Designation must be a separate document from Address (line 2) Assignment.) Address (line 3) Allentown Pennsylvania 18109 State/Country **Domestic Representative Name and Address** Enter for the first Receiving Party only. Name Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY 12/14/2001 LEJELLER 00000040 501735 10003973 01 FC:581 40.00 CH

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FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Ad	Idress Area Code and Telephone Number	(972) 480-8800
Name Greg H. Parker	·	
Address (line 1) Hitt Gaines & Bo	oisbrun, P.C.	
Address (line 2) P.O. Box 832570		
Address (line 3) Richardson, Tex	as 75083	
Address (line 4)		
Pages Enter the total num including any attack	ber of pages of the attached conveyance docu	ment # 5
Patent Application Num  N/A  If this document is being filed together with signed by the first named executing invent	ber or the Patent Number (DO NOT ENTER BOTH numbers aber(s)  Pater  a new Patent Application, enter the date the patent application.	nt Number(s)
Patent Cooperation Treaty (P  Enter PCT application not only if a U.S. Application	PCT PCT PCT PCT	PCT PCT
has not been assigned. Number of Properties En		# 1
Fee Amount Fee	Amount for Properties Listed (37 CFR 3.41):	\$ 40.00
Method of Payment: Deposit Account (Enter for payment by deposit account)	Enclosed Deposit Account X  unt or if additional fees can be charged to the account.)  Deposit Account Number:	# 501735
	Authorization to charge additional fees:	Yes 🐰 No
Statement and Signature		

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as

Signature

10/24/2001

Date

indicated herein.

Charles W. Gaines

Name of Person Signing

#### ASSIGNMENT

For value received, we, Wen Lin, of Allentown in the County of Lehigh and the State of Pennsylvania, and Charles W. Pearce, of Emmaus in the County of Lehigh and the State of Pennsylvania, hereby sell, assign and transfer to Agere Systems Inc., a corporation of the State of Delaware, having an office at 555 Union Boulevard, Allentown, Pennsylvania 18109, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to "A SEMICONDUCTOR DEVICE HAVAING A DOPED LATTICE MATCHING LAYER AND A METHOD OF MANUFACTURE THEREFOR" described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Agere Systems Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Agere Systems Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Agere Systems Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Agere Systems Inc. in the United States and in all countries foreign to the United States, or to such nominees as Agere Systems Inc. may designate.

We agree that, when requested, we shall, without charge to Agere Systems Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Wen Lin 10/12/01

STATE OF Pennsylvania	§
$\sim$ , $\mathcal{I}_{\bullet}$	Ş
COUNTY OF Kehigh	§

On this \_\_/2 th day of \_\_\_\_\_\_, 2001, before me personally came Wen Lin, to me known to be the individual described herein and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

My Commission Expires:

12/28/04

Notarial Seal Janet M. Garger, Notary Public Allentown, Lehigh County My Commission Expires Dec. 28, 2004

Member, Pennsylvania Association of Notaries

Charles W. Dearce.

STATE OF <u>Flans</u> COUNTY OF <u>LU</u>	ylvania gh_		§ § §
On this/ W. Pearce, to me kno instrument, and ackno	wn to be the individ	dual describ	2001, before me personally came Charles ed herein and who executed the foregoing e.
		May Notary	YELLE DOUSE Public
•	•	My Co	mmission Expires:
			16/04
			Notarial Seal Mary Ellen Dobish, Notary Public Allentown, Lehigh County My Commission Expires New 6, 2004

Agere Systems Inc. 555 Union Boulevard Allentown, Pennsylvania 18109